

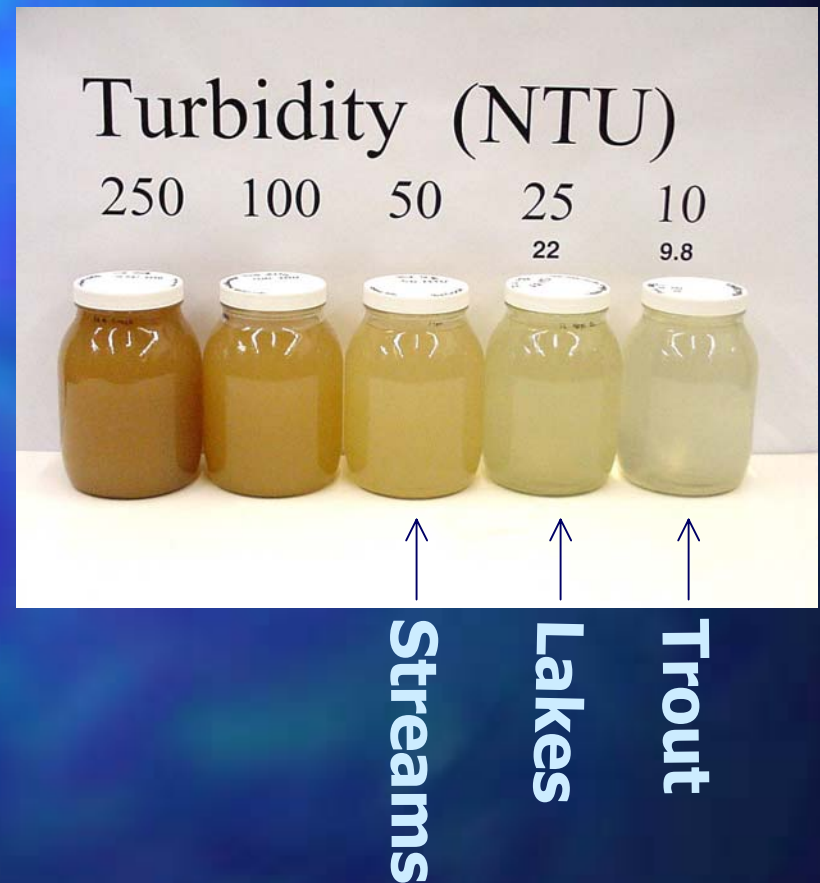
# WHY KEEP SEDIMENT/TURBIDITY OUT OF STREAMS?

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April 3, 2002

# WHAT IS TURBIDITY?

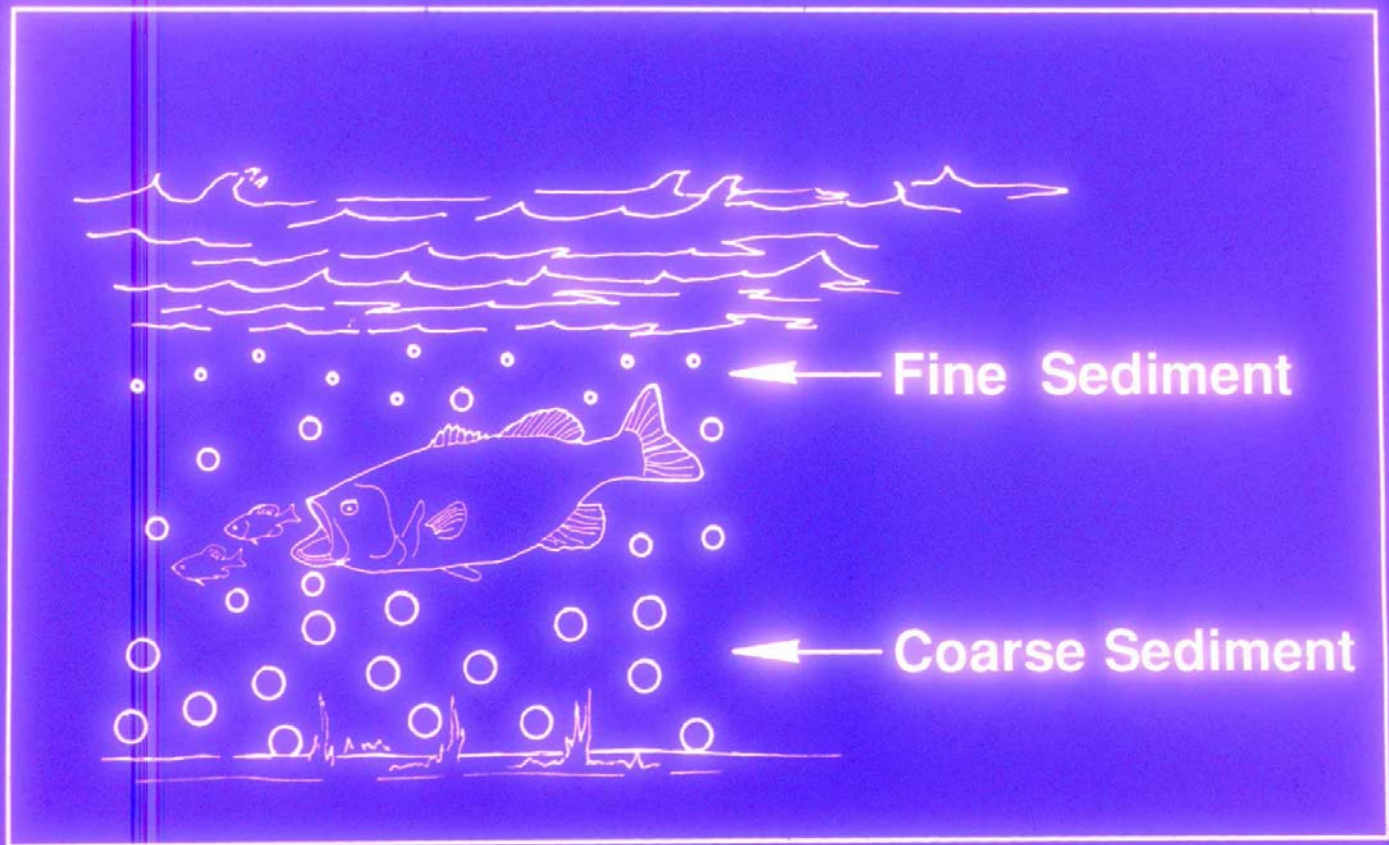
- Measure of Suspended Matter in Water
- Measure of Light Scattered/Absorbed
- Nephelometric Turbidity Units (NTU)







# Turbidity





# ***Good Instream Habitat***

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- **Variety of Particle Sizes (Rocks)**
- **Stable Banks**
- **Natural Bends**
- **Trees and shrubs along banks**
- **Variety of Depths**
- **Pools and Riffles**
- **Woody Material**





**Leaf packs, sticks, large woody debris**

# Sediment May Not Cause Fish Kills

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# Habitat is Gone!





















# 16 feet of sediment





# Why Be Concerned?

## Biological Impacts



- Decline in fish populations
- Damage to gills
- Decreased disease resistance
- Smothering of eggs
- Juvenile species





# Sediment Load to Stream



Sed. Load = 6.7 ton/day















# Estimated Yearly Deposit



- $15 \text{ T/Acre/Yr} \times 80\text{Ac} = 1200 \text{ T/yr}$   
 $= 3.2 \text{ T/Day}$





Discharge of 3 T/Day or 21 T/Week







# Need for Ground Cover









